Comparison of source shapes from EPOS and momentum correlations from CRAB

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Analysis

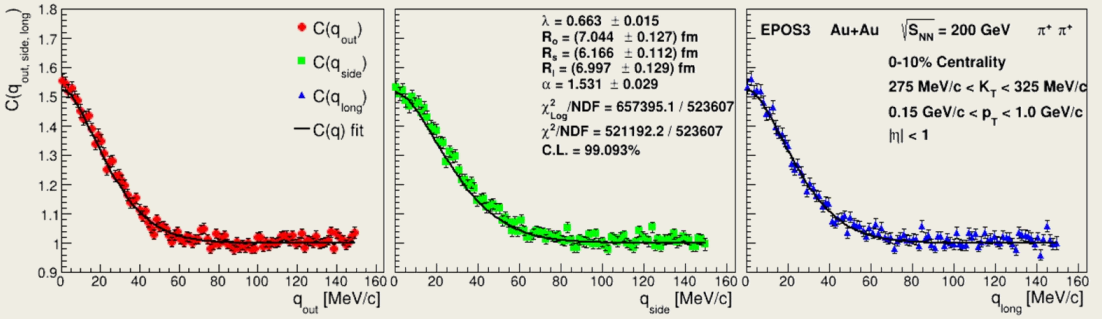
- Data: $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions generated by EPOS3
- $\pi^+ \pi^+$ correlations in the 0-10% centrality class

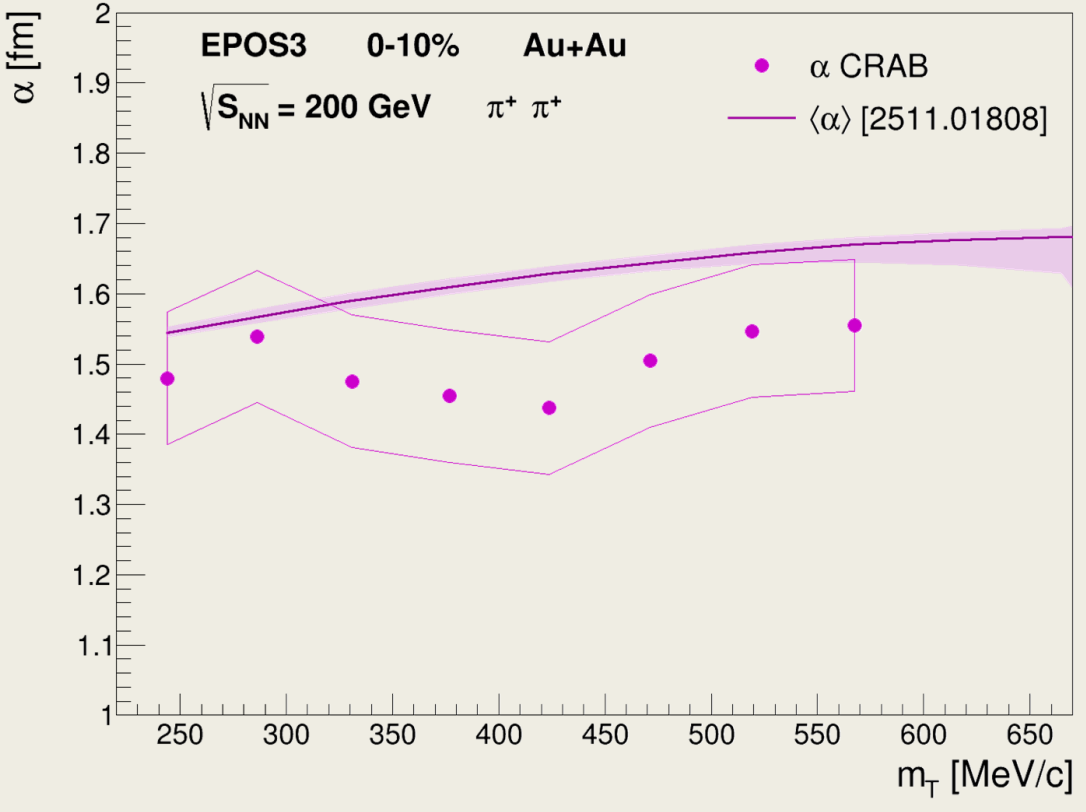
arxiv: 2511:01808

EPOS3 data

Fitting the **source function** event by event → Averaging the parameters → **Lévy source parameters**

This work: Add Bose-Einstien correlations with CRAB → Fitting the 3D **correlation function** → **Lévy source parameters**





Results

- Trends fit well the other analysis
- But there are still questions:
  - Why this waving trend appears? (Event mixing of CRAB?)
  - Why the large systematics? (work in progress)